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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,974	07/31/2006	Juswinder Singh	14937.0009	3616
53663 7590 01/21/2010 STEPTOE & JOHNSON LLP 1330 CONNECTICUT AVE., NW			EXAMINER	
			SKOWRONEK, KARLHEINZ R	
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1631	
			MAIL DATE	DELIVERY MODE
			01/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/562.974 SINGH ET AL. Office Action Summary Examiner Art Unit KARLHEINZ R. SKOWRONEK 1631 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 29 December 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-76 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) 1-76 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information-Displaceure-Statement(e) (FTO/SS/08)

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-31, drawn to a method for generating interaction fingerprints.

Group 2, claim(s) 32, drawn to a method of comparing interaction fingerprints.

Group 3, claim(s) 33-36, drawn to a method of generating a database.

Group 4, claim(s) 37-41, drawn to a method of comparing interaction fingerprints from uniformly numbered sequences.

Group 5, claim(s) 42-55, drawn to a computer database product.

Group 6, claim(s) 56-76, drawn to computer program product.

The inventions listed as Groups 1-6 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The groups rely on the same feature, namely the structural interaction fingerprint. The structural interaction fingerprint is not a special technical feature. Briem et al. (IDS filed 12/29/2005, entry 1) shows a process of generating an interaction fingerprint from 3 dimensional structures of proteins (p. 3401, col. 2). Briem et al. shows the interaction or docking of protein and ligand are used to generate a fingerprint (p. 3402, col. 2). Since a method of generating structural interaction fingerprints was known in the prior art, it is not a special technical feature. Thus, the inventions of groups 1-6 lack unit of invention.

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This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

The invention of group 1 recites the distinct species of target molecules as recited in claims 2 and 3. Claim 2 recites the species of target molecule that is a protein. Claim 3 recites the species of target molecule that is nucleic acid. If applicant elects group 1, applicant is required to elect a single target molecule from the group of protein or nucleic acid.

The invention of group 5 recites the distinct species of target molecules as recited in claims 43 and 44. Claim 43 recites the species of target molecule that is a protein. Claim 44 recites the species of target molecule that is nucleic acid. If applicant elects group 5, applicant is required to elect a single target molecule from the group of protein or nucleic acid.

The invention of group 6 recites the distinct species of target molecules as recited in claims 57 and 58. Claim 57 recites the species of target molecule that is a protein. Claim 58 recites the species of target molecule that is nucleic acid. If applicant elects group 6, applicant is required to elect a single target molecule from the group of protein or nucleic acid.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims

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subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

The claims are involve the generation of structural interaction fingerprints from the combination of a target molecule and a ligand molecule. The above-recited claims describe two distinct species of target molecules.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The target molecules lack the same special technical features because the target molecules are directed to distinct molecules. The structure of a protein is distinct from the structure of a nucleic acid. Proteins are polymers composed of subunits linked through carboxylic acid/amine linkage. Nucleic acids are polymers of oligosaccharides in which the oligosaccharides are linked via phosphate linkage. Thus due to the distinct chemical compositions and structures of proteins and nucleic acids, proteins fail to share the same or corresponding special technical features and are therefore distinct species.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KARLHEINZ R. SKOWRONEK whose telephone number is (571)272-9047. The examiner can normally be reached on 8:00am-5:00pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marjorie Moran can be reached on (571) 272-0720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KARLHEINZ R SKOWRONEK/ Examiner, Art Unit 1631

21 January 2010